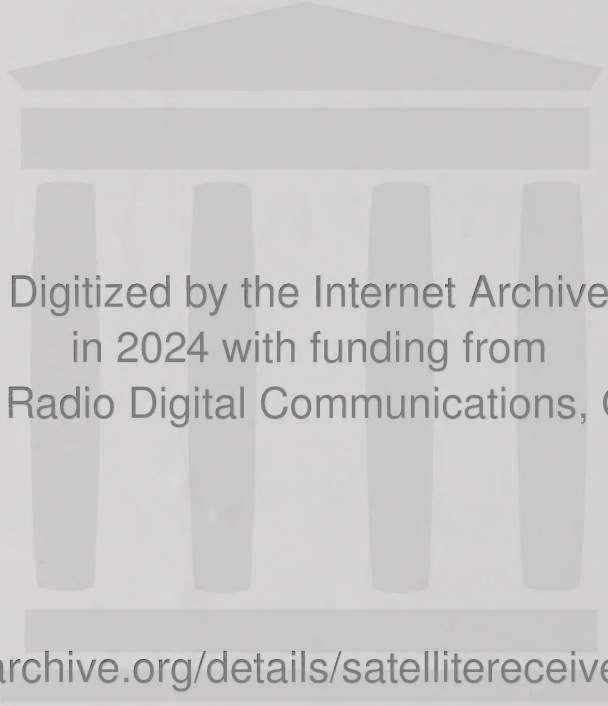
SATELLITE RECEIVER

PORTOPIA

MODEL NO:WR-3600 PLL SCPC

Operation instruction



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C - BAND

SPECIFICATION SYSTEM:

RF INPUT FREQUENCY: 950 - 1450MHZ
INPUT LEVEL : -60DBM TO -30DBM
2ND IF FREQUENCY : 70MHZ
IF BANDWIDTH : VIDEO BANDWIDTH CONTINUE SELECTION: TUNABLE
: BANDWIDTH FROM 8MHZ TO 32MHZ
INPUT IMPEDANCE : 75 OHM
THRESHOLD : 8.0dB TYPICAL
DC OUTPUT TO LNB : 18V DC
VIDEO
A. DE-EMPHASIS : CCIR REC 405-1 625 LINES
B. OUTPUT LEVEL : 1VPP TYPICAL (ADJUSTABLE)
C. OUTPUT IMPEDANCE : 75 OHM
D. FREQUENCY RESPONSE: 50HZ TO 5MHZ
E. S/N RATIO : 45dB AT C/N OF 12dB

AUDIO
A. FREQUENCY RESPONSE: 40HZ TO 15KHZ, +/- 3dB
B. DE-EMPHASIS : 50/75 USEC / J17
C. OUTPUT LEVEL : 1VRMS INTO 10K OHM LOAD
D. S/N RATIO : 50dB AT 75KHZ DEV.
E. DISTORTION : 0.25% THD

COMPOSITE OUT: 1VPP
POWER FREQUIREMENTS: 220VAC 50HZ (OR 240VAC 50HZ)
RF MODULATOR
CHANNEL: UHF 30-39CH, PRESET AT CH36; VHF E5-E12, PRESET AT E5.
IMPEDANCE: 75 OHM UNBALANCED

OPERATION INSTRUCTION FOR
THIS RECEIVER BROADCAST SATELLITE RECEIVER
BLOCK CONVERSION

CAUTION: DON'T REMOVE COVER

THERE ARE AC VOLTAGE LEVELS PRESENT IN THE INSIDE OF THIS RECEIVER AS WELL AS LOW VOLTAGE DC THROUGH OUT THE UNIT WHICH CAN BE DANGEROUS UNDER CERTAIN CONDITIONS

THIS RECEIVER SHOULD BE SERVICED ONLY BY QUALIFIED TECHNICIANS.

(A) INTRODUCTION

THIS BROADCAST SATELLITE RECEIVER IS A HIGH PERFORMANCE AND LATEST TECHNOLOGY INCORPORATED RECEIVER WHICH IS ASSURED BY VERY INTENSIVE QC PROCEDURES AND TEST AT THE FACTORY.

THESE INSTRUCTIONS ARE INTENDED TO PROVIDE THE USER WITH SUFFICIENT TO UNDERSTAND AND OPERATE THE RECEIVER.

THE QUALITY OF RECEPTION IS HIGH DEPENDENT ON INSTALLATION PROCEDURES.

(B) INSTALLATION

1. RECEIVER LOCATION

THE RECEIVER MAY BE LOCATED UP 100 FEET FROM THE SATELLITE ANTENNA AND LNB.

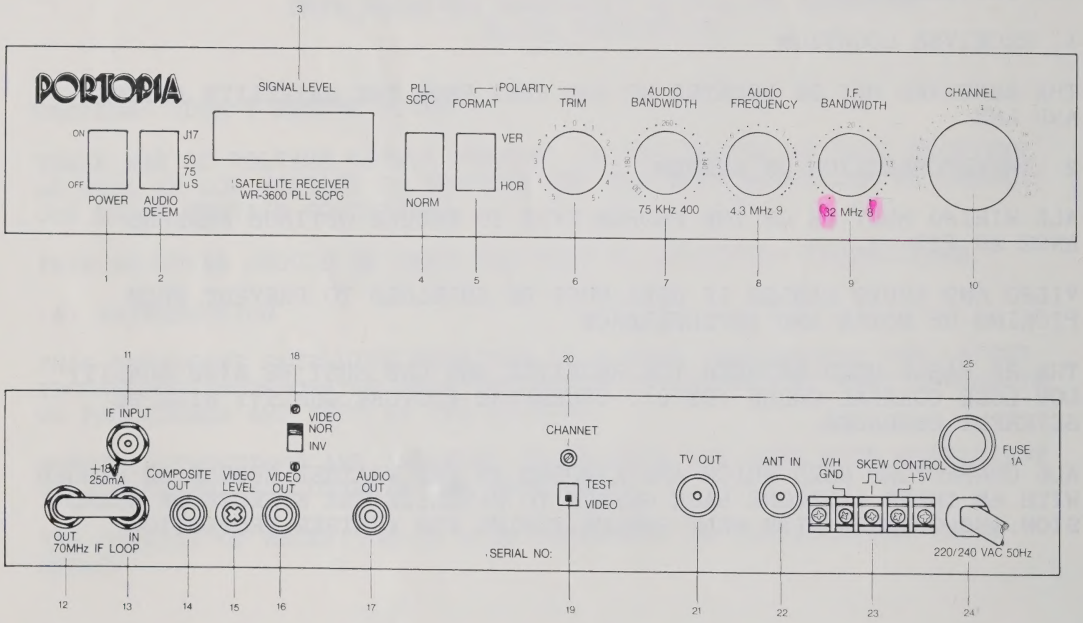
2. INTERCONNECTION OF SYSTEM

ALL WIRING MUST BE OF THE PROPER TYPE TO ENSURE OPTIMUM PERFORMANCE AS FIG. 1.

VIDEO AND AUDIO CABLES IF USED MUST BE SHIELDED TO PREVENT FROM PICKING UP NOISE AND INTERFERENCE.

THE RF CABLE USED BETWEEN THE RECEIVER AND LNB MUST BE HIGH QUALITY LOW LOSS COAXIAL CABLE (RG-6). OTHERWISE PICTURE QUALITY WILL BE SEVERELY DEGRADED.

ALL CONNECTORS USED WHICH ARE EXPOSED TO THE WEATHER SHOULD BE FILLED WITH AN INERT SILICONE BASE GREASE TO MINIMIZE THE EFFECTS OF CORROSION AND COVERED WITH HEAT SHRINK TUBING FOR FURTHER PROTECTION.


3
PORTOPIA
SIGNAL LEVEL
PLL SCPC
POLARITY
FORMAT
TRIM
AUDIO BANDWIDTH
AUDIO FREQUENCY
I.F. BANDWIDTH
CHANNEL
ON
OFF
J17
50
75
u.S
VER
HOR
SATELLITE RECEIVER
WR-3600 PLL SCPC
POWER
AUDIO DE-EM
NORM
75 KHz 400
4.3 MHz 9
32 MHz 8
1
2
4
5
6
7
8
9
10
11
18
20
25
IF INPUT
VIDEO
NOR
INV
CHANNET
FUSE 1A
+18V 250mA
COMPOSITE OUT
VIDEO LEVEL
VIDEO OUT
AUDIO OUT
TEST
VIDEO
TV OUT
ANT IN
V/H GND
SKEW CONTROL
+5V
OUT 70MHz IF LOOP
IN
SERIAL NO:
220/240 VAC 50Hz
12
13
14
15
16
17
19
21
22
23
24

ADL POLARIZER

BLK - Ground
White - Pulse
Red - +5VDC

FRONT PANEL

1 POWER ON/OFF SWITCH
PRESS SWITCH UPSIDE FOR POWER ON. DOWNSIDE FOR POWER OFF.

2 AUDIO DE-EMPHASIS SWITCH
PRESS SWITCH UPSIDE FOR J17 DE-EMPHASIS. DOWNSIDE FOR 50/75 USEC DE-EMPHASIS.

3 SIGNAL LEVEL INDICATOR
INDICATING RELATIVE RF SIGNAL LEVEL.

4 SCPC/NORMAL SWITCH
PRESS SWITCH UPSIDE FOR PLL SCPC. DOWNSIDE FOR NORMAL AUDIO.

5 POLARITY FORMAT SWITCH
PRESS SWITCH UPSIDE FOR VERTICAL. DOWNSIDE FOR HORIZONTAL.

6 POLARITY TRIM
FOR TRIMMING PROPER POLAROTOR POSITION.

7 AUDIO BANDWIDTH
AUDIO BANDWIDTH SELECTION TUNABLE FROM 75KHZ TO 400KHZ.

8 AUDIO FREQUENCY SELECTION
TUNABLE FROM 4.3MHZ TO 9.0MHZ.

9.

: IF BANDWIDTH SELECTION
TUNABLE FROM 8 MHZ TO 32MHZ

10. CHANNEL SELECTION
FOR VIDEO PROGAM SELECTION

13/02/88: V OUT ADL - IN BOTH VT & H3, STAY AWAY FROM CAST 15° ON EACH END OF POLARITY TRIM

V- PREFERENCE

REAR PANEL

11. IF INPUT : CONNECTING TO LNB OR DOWN CONVERTER OUTPUT.
IT SUPPLYS DC + 18V, 250MA TO LNB.

12. OUT 70MHZ

13. IN IF LOOP : THOSE TWO TERMINAL SHORT NORMALLY, AND OPEN FOR PUT ON EXTRA BANDPASS FILTER.

14. COMPOSITE OUT : CONNECTING TO DISCRAMBLER INPUT (DISCRAMBLE OUTPUT TO TV).

15. VIDEO LEVEL : TUNABLE FOR SUITABLE BRIGHTNESS.

16. VIDEO OUT : CONNECTING TO MONITOR IN NEED OF VIDEO.

17. AUDIO OUT : PROVIDING AUDIO OUTPUT TO RADIO OR TV EQUIPMENT.

18.

: PUTTING ON NOR POSITION FOR LNB OF LOW SIDE DESIGN.
PUTTING ON INV POSITION FOR LNB OF HIGH SIDE DESIGN.

19 TEST SWITCH : "VIDEO" IS SATELLITE SIGNAL AND "TEST" IS INTERNALLY GENERATED TEST SIGNAL.

20. CHANNEL SELECTION : FREQUENCY ADJUSTABLE RANGE FROM CH30 TO CH39. INITIAL PRESET CH36.

21. TV OUT : UHF OUTPUT BY SATELLITE SIGNAL OR TERRESTRIAL TV SIGNAL (AERIAL PAL PLUG).

22. ANT IN : TERRESTRIAL UHF TV SIGNAL INPUT (AERIAL PAL SOCKET).

23. POLARIZER CONTROL TERMINAL : POLARIZER CONTROL OUTPUT USED TO SELECT EITHER VERTICAL OR HORIZONTAL POLARITY.

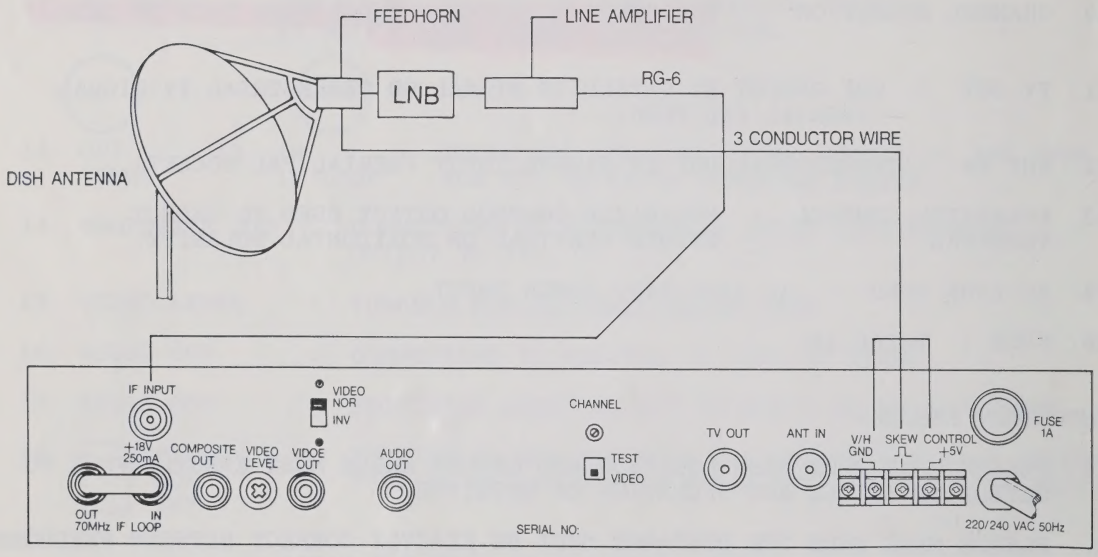
24. AC LINE CORD : AC 220V/240V POWER INPUT.

25. FUSE : TOTAL 1A.

IMPORTANT REMARK:

1. PLEASE MAKE SURE DISH LOCATION AND OFFSET ANGLE MUST EXACTLY FACE TO SATELLITE BEFORE ANY OPERATION OF RECEIVER.

2. PLEASE MAKE SURE THE DISTANCE MUST BE EXACTLY CORRECT BETWEEN FEEDHORN SURFACE AND DISH CENTER ACCORDING TO DISH F/D RATIO.


FEEDHORN
LINE AMPLIFIER
LNB
RG-6
3 CONDUCTOR WIRE
DISH ANTENNA
IF INPUT
+18V
250mA
OUT
70MHz IF LOOP
IN
COMPOSITE
OUT
VIDEO
LEVEL
VIDOE
OUT
VIDEO
NOR
INV
AUDIO
OUT
CHANNEL
TEST
VIDEO
TV OUT
ANT IN
V/H
GND
SKEW
CONTROL
+5V
FUSE
1A
220/240 VAC 50Hz
SERIAL NO: